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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/20/2003

Robert H. Hammer III P.C. Suite 250 13777 Ballantyne Corporate Place Charlotte, NC 28277

EXAMINER	
DAGI.MATER	

WACHTEL, ALEXIS A

ART UNIT CLASS-SUBCLASS

1764

442-181000

DATE MAILED: 05/20/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,301	08/20/2001	Charles A. Thomas	2006.2	5679

TITLE OF INVENTION: TEXTILE FABRIC FOR THE OUTER SHELL OF A FIREFIGHTER'S GARMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	08/20/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

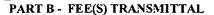
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450 (703)746-4000

Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

indicated unless corrected b maintenance fee notification	elow or directed otherwis.	se in Block 1, by (a) sp	ecifying a new co	rrespondence ado	ees will be mailed to the current dress; and/or (b) indicating a sepa	trate "FEE ADDRESS" for
75 Robert H. Hamme	90 05/20/2003	-up with any corrections or use I	Block ()	Fee(s) Transmaccompanying	ate of mailing can only be used to ittal. This certificate cannot l papers. Each additional paper, s must have its own certificate of m	be used for any other much as an assignment or
Suite 250 13777 Ballantyne C Charlotte, NC 2827				I hereby certify United States Poenvelope address transmitted to the	Certificate of Mailing or Trans that this Fee(s) Transmittal is ostal Service with sufficient postal seed to the Box Issue Fee address ie USPTO, on the date indicated by	being deposited with the ge for first class mail in an above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,301	08/20/2001		Charles A. Thoma	;	2006.2	5679
TITLE OF INVENTION: TE	EXTILE FABRIC FOR T	HE OUTER SHELL OF	A FIREFIGHTER	'S GARMENT		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300		\$300	\$1600	08/20/2003
EXAMIN	rer l	ART UNIT	CLASS-SUBCL	ASS		
WACHTEL, A	ALEXIS A	1764	442-18100	0		
Please check the appropriate 4a. The following fee(s) are of a lssue Fee 2 Publication Fee 2 Advance Order - # of Co	nce address (or Change o (2) attached. on (or "Fee Address" India or more recent) attached. It  RESIDENCE DATA TO a assignee is identified be to the USPTO or is being assignee category or cate enclosed:	sation form lise of a Customer  BE PRINTED ON THE submitted under separate (B) RE gories (will not be printed 4b. Pay A cr Payr The	the names of up or agents OR, single firm (ha attorney or age registered paten is listed, no nam  PATENT (print of ill appear on the prover. Completion (SIDENCE: (CITY))  d on the patent)  ment of Fee(s):  meck in the amount ment by credit care.  Commissioner is Introduced in the patent of the care.	atent. Inclusion on of this form is North and STATE OR individual of the fee(s) is er. I. Form PTO-2030 tereby authorized	patent attorneys the name of a per a registered ales of up to 2 ents. If no name  and assignee data is only appropriat Of a substitute for filing an assig COUNTRY)  Courporation or other private granclosed.	roup entity
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec This collection of informat obtain or retain a benefit tapplication. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT S SEND TO: Commissioner: Under the Paperwork Recollection of information under the programme of the pr	a registered attorney of a cords of the United States from is required by 37 Cf by the public which is to its governed by 35 U.S.C. es to complete, including in to the USPTO. Time the the amount of time you his burden, should be ser Office, U.S. Department END FEES OR COMPI for Patents, Alexandria, V	agent; or the assignee of Patent and Trademark O Patent and Trademark O R 1.311. The informatic file (and by the USPT) 1.122 and 37 CFR 1.14. The gathering, preparing, and will vary depending upon require to complete that to the Chief Informatic of Commerce, Alexa LETED FORMS TO THE Triginia 22313-1450.	or other parfy in ffice.  on is required to to process) an This collection is d submitting the in the individual his form and/or on Officer, U.S. andria, Virginia HIS ADDRESS.			



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trudemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Viginis 22313-1450 www.usple.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,301	08/20/2001	Charles A. Thomas	2006.2	5679
75	90 05/20/2003		EXAMIN	ER
Robert H. Hamme	er III P.C.		WACHTEL, A	LEXIS A
Suite 250 13777 Ballantyne C	Corporate Place		ART UNIT	PAPER NUMBER
Charlotte, NC 28277			1764	
			DATE MAILED: 05/20/2003	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 55 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 55 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,301	08/20/2001	Charles A. Thomas	2006.2	5679
75	90 05/20/2003		EXAMINI	ER
Robert H. Hammer III P.C.		WACHTEL, ALEXIS A		
Suite 250 13777 Ballantyne C	Corporate Place		ART UNIT	PAPER NUMBER
Charlotte, NC 2827	77		1764	
UNITED STATES			DATE MAILED: 05/20/2003	

### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
	09/933,301	THOMAS ET AL.	
Notice of Allowability	Examiner	Art Unit	
•	Alexis Wachtel	1764	
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOS ) or other appropriate of IGHTS. This applicati	SED in this application. If not include communication will be mailed in due	ed course. <b>THIS</b>
<ol> <li>This communication is responsive to <u>amendment filed 3-2</u></li> <li>The allowed claim(s) is/are <u>1 and 3-16</u>.</li> </ol>	<u>4-2003</u> .		
<ol> <li>∴ The anowed claim(s) israte <u>rand 3-70</u>.</li> <li>∴ The drawings filed on <u>20 August 2001</u> are accepted by the</li> </ol>	e Examiner		
Acknowledgment is made of a claim for foreign priority una		-(d) or (f).	
1.  Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have	e been received in App	olication No	
3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).	ocuments have been re	ceived in this national stage applica	ition from the
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority u	Indox 25 H C C 5 110/		·
(a) ☐ The translation of the foreign language provisional a			
6. Acknowledgment is made of a claim for domestic priority u	• •		•
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of The A SUBSTITUTE OATH OR DECLARATION must be subtracted by the property of	this application. THIS	S THREE-MONTH PERIOD IS NOT ed Examiner's amendment or i	EXTENDABLE.
INFORMAL PATENT APPLICATION (PTO-152) which gives reason.	son(s) wny the oath or	declaration is deficient.	
8. CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftsper	rson's Patent Drawing	Review ( PTO-948) attached	
1)  hereto or 2) to Paper No			
(b) including changes required by the proposed drawing			
(c) ☐ including changes required by the attached Examine	r's Amendment / Comr	nent or in the Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	l.84(c)) should be writte r with a transmittal lette	n on the drawings in the top margin ( r addressed to the Official Draftspers	not the back) on.
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR 1	osit of BIOLOGICAL THE DEPOSIT OF BIC	MATERIAL must be submitted. I LOGICAL MATERIAL.	Note the
Attachment(s)			
<ul> <li>1 Notice of References Cited (PTO-892)</li> <li>3 Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 Information Disclosure Statements (PTO-1449), Paper No</li> <li>7 Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4□ In 6□ E>	otice of Informal Patent Application ( terview Summary (PTO-413), Paper taminer's Amendment/Comment taminer's Statement of Reasons for	No
o. Diological Material	a□ O		

Application/Control Number: 09/933,301

Art Unit: 1764

### **Detailed Action**

## Response to Amendment

1. Applicant's amendment and accompanying Remarks filed 3-24-2003 have been entered and carefully considered.

The amendment is sufficient to overcome the obviousness rejections of claims 1 and 4-7 since the relied upon prior art fails to teach that the weight ratio of spun yarns to multifilament yarn is 85:15 to 92:8. Claim 2 is cancelled without prejudice.

## Allowable Subject Matter

2. Claims 1,3-16 are found to be allowable. The following is an examiner's statement of reasons for allowance: It would not have been obvious for one of ordinary skill to have provided the claimed weight ratio of multifilament to spun yarns since no prior art has been found to teach or suggest the desirability of incorporating a greater ratio of abrasion prone spun yarns to abrasion proof multifilament yarns. Examiner believes that using less multifilament yarns will ultimately result with a fabric having less abrasion resistance. In addition, no prior art has been found to teach or suggest the claimed insert ratio of multifilament to spun yarns in the warp and weft directions. In particular, no prior art has been found to teach the desirability of such a ratio. There would have been no motivation to have used Applicants claimed insert ratio without relying on hindsight.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Art Unit: 1764

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

3. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Alex Wachtel, whose number is (703)-306-0320. The Examiner can normally be reached Mondays-Fridays from 10:30am to 6:30pm.

If attempts to reach the Examiner by telephone are unsuccessful and the matter is urgent, the Examiner's supervisor, Mr. Glenn Caldarola can be reached at (703) 308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

TERREL MORRIS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700